

Title (en)

ROTOR SECTION WITH CENTER TUBE FOR SUBMERSIBLE PUMP ASSEMBLY MOTOR

Title (de)

ROTORABSCHNITT MIT MITTIGEM ROHR FÜR MOTOR EINER TAUCHPUMPENANORDNUNG

Title (fr)

SECTION DE ROTOR AVEC TUBE CENTRAL POUR MOTEUR D'ENSEMBLE POMPE SUBMERSIBLE

Publication

**EP 3430266 A4 20191023 (EN)**

Application

**EP 17767097 A 20170113**

Priority

- US 201662307633 P 20160314
- US 201615386137 A 20161221
- US 2017013414 W 20170113

Abstract (en)

[origin: US2017264161A1] A submersible well pump assembly has a pump driven by an electrical motor. The motor has a number of rotor sections axially separated from each other by radial bearings. Each of the rotor sections has disks stacked together, each of the disks having a central opening and slots circumferentially spaced around the central opening. Metal rods extend through the slots. A center tube extends through the central openings of the disks. The center tube has an outer diameter in an interference fit with the disks. A slot and key arrangement between the inner diameter of the center tube and the motor shaft rotates the motor shaft in unison. The ends of the center tube extend past end rings of the rotor sections and abut with center tubes of adjacent rotor sections.

IPC 8 full level

**H02K 1/30** (2006.01); **E21B 4/00** (2006.01); **E21B 43/12** (2006.01); **F04D 13/10** (2006.01); **F04D 29/047** (2006.01); **H02K 5/132** (2006.01); **H02K 7/00** (2006.01); **H02K 7/08** (2006.01); **H02K 16/02** (2006.01)

CPC (source: EP US)

**E21B 4/003** (2013.01 - EP US); **E21B 43/128** (2013.01 - EP US); **F04D 13/10** (2013.01 - EP US); **F04D 25/0686** (2013.01 - US); **F04D 29/0473** (2013.01 - EP US); **H02K 1/28** (2013.01 - US); **H02K 1/30** (2013.01 - EP US); **H02K 5/132** (2013.01 - EP US); **H02K 7/003** (2013.01 - EP US); **H02K 7/08** (2013.01 - EP US); **H02K 16/02** (2013.01 - EP US); **F05D 2260/37** (2013.01 - EP US)

Citation (search report)

- [IA] CN 201570925 U 20100901 - TIANJIN RONGHENG GROUP CO LTD
- [Y] US 2009039722 A1 20090212 - CAIN SEAN A [US], et al
- [Y] US 2006175064 A1 20060810 - YURATICH MICHAEL A [GB]
- [YA] JP 2015086817 A 20150507 - DAIKIN IND LTD
- See references of WO 2017160388A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 10833556 B2 20201110**; **US 2017264161 A1 20170914**; AR 107810 A1 20180606; EP 3430266 A1 20190123; EP 3430266 A4 20191023; EP 3430266 B1 20210609; WO 2017160388 A1 20170921

DOCDB simple family (application)

**US 201615386137 A 20161221**; AR P170100551 A 20170306; EP 17767097 A 20170113; US 2017013414 W 20170113